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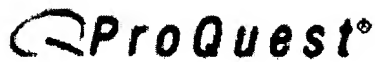
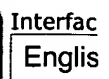
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	Method for designing open magnets and open magnetic apparatus for use in MRI/MRT probes		
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it is convenient to introduce the concept of **Lyapunov** exponent. Let us consider the function g that

We propose an algorithm for combinatorial **optimization** where an explicit check for the repetition of

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quadratic correction term as the solution of a **Lyapunov** equation. Remarkably, this correction term can

in both continuous and combinatorial **optimization** (we refer the reader to [18] for an extensive

On the Nesterov-Todd direction in semidefinite **programming** M. J. Todd K. C. Toh y and R. H.

singa.math.nus.edu.sg/~mattohk/papers/sdp.ps.Z

On The Nesterov-Todd Direction In Semidefinite Programming - Todd, Toh, Tütüncü (1996) (Correct) (77 citations)

quadratic correction requires the solution of a **Lyapunov** equation, but this can be solved explicitly and

and Applied Mathematics, SIAM Journal on **Optimization** 8 (1998) 769-796. Corresponding author.

On The Nesterov-Todd Direction In Semidefinite **Programming** #M. J. Todd K. C. Toh #And R. H. T

ftp.orie.cornell.edu/pub/techreps/TR1154.ps.Z

Advanced Gain-Scheduling Techniques For Uncertain Systems - Pierre Apkarian (1997) (Correct) (12 citations)

controllers is the search for adequate **Lyapunov** functions that establish stability and a [1]an elegant and solidly based branch of **optimization** theory [2, 3, 4]Expressed in terms of Linear

using available tools in convex semi-definite **programming**. When used together, these techniques provide

momiji94.ces.kyutech.ac.jp/apkarian/ACC97FULL.ps

Constraint Aggregation Principle in Convex Optimization - Ermoliev, Kryazhinskii.. (1995)
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prove a simple lemma which is an analog of the **Lyapunov** function approach in the study of convergence of

Constraint Aggregation Principle in Convex **Optimization** Yuri M. Ermoliev Arkadii V. Kryazhinskii

in various application areas, like stochastic **programming** problems with constraints that have to hold

www.iiasa.ac.at/Publications/Documents/WP-95-015.ps

Constraint Programming in Constraint Nets - Zhang (1993) (Correct) (5 citations)

the process. Monotonicity" is characterized by a **Liapunov** function, representing the "distance" to the set

approach has been taken in neural nets [18]**optimization**, graphical simulation [16] and robot control

Constraint **Programming** in Constraint Nets Ying Zhang Department of

[ftp.cs.brown.edu/pub/ppcp93/zhang.ps.Z](ftp://cs.brown.edu/pub/ppcp93/zhang.ps.Z)

Value Iteration and Optimization of Multiclass Queueing Networks - Chen, Meyn (1997)

(Correct) (5 citations)

algorithm is initialized with a stochastic **Lyapunov** function, then the following hold i)A

Value Iteration and **Optimization** of Multiclass Queueing Networks Rong-Rong decision processes, optimal control, dynamic **programming**. Work supported in part by NSF Grant ECS

black.csl.uiuc.edu/~meyn/vi.PS

The Computational Power of Discrete Hopfield Nets with Hidden Units - Orponen (1996)

(Correct) (5 citations)

with symmetric interconnections possess natural **Liapunov** functions, and are thus at least dynamically 1

from the general theory of local search for **optimization** problems (Schaffer and Yannakakis 1991)In

Colloquium on Automata, Languages, and **Programming**, Lecture Notes in Computer Science Vol. 700,

www.math.jyu.fi/~orponen/papers/hoppow.ps

On Dynamically Consistent Hybrid Systems - Peter Caines (1995) (Correct) (2 citations)

control function to the next one. Motivated by **Liapunov** stability theory, M. Glaum [4] related algebraic

Further, in their recent work (6][7]an **optimization** problem (with ffl-tolerance) is converted into

(with ffl-tolerance) is converted into a linear **programming** problem based upon the discrete topology. In

<ftp://mcrcim.mcgill.edu/pub/papers/1995/hybrid1.ps.gz>

A Parameter-Dependent Performance Criterion for Linear.. - Lee, Spillman (1997)

(Correct) (2 citations)

such method uses parameter-dependent quadratic **Lyapunov** functions and ideas drawn from H1 **optimization**

theory, the synthesis problem reduces to convex **optimization** involving linear matrix inequalities. A

and optimizing controllers reduces to convex **programming**. These controllers are also systematically

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Approximate Solutions to the Time-Invariant.. - Beard, Saridis, Wen (1998) (Correct)
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to successive approximations of a sequence of **Lyapunov** equations. In Ref. 9 the bilinear control

Journal of **Optimization** Theory and Applications Approximate Solutions

control problem in the form of a nonlinear **programming** problem. The method is formulated in path

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Perspective James

viewpoint and is more suited to trajectory **optimization**. Consider the following problem: inf equations A standard dynamic **programming** argument reduces the above optimal control

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Infeasibility Handling In Linear Mpc Subject To.. - Vada, Slupphaug, Foss (1999) (Correct)
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$\tilde{Q}x$ where \tilde{Q} is the solution of the matrix **Lyapunov** equation $\tilde{Q} = \tilde{Q}K^T R K A^{-1} \Gamma + B K^T$

MPC which transforms an infeasible MPC **optimization** problem into a feasible one. The algorithm

problem using the strategy of lexicographic goal **programming** where the objectives have different

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On Receding Horizon Extensions and Control Lyapunov.. - Primbs, Nevistic, Doyle (1998)
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relation to the Hamilton-Jacobi-Bellman (HJB) **optimization** equation. A variation of Sontag's famous CLF

1 positive semi-definite. A standard dynamic **programming** argument reduces the above optimal control

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On Receding Horizon Extensions and Control **Lyapunov** Functions James A. Primbs

Vesna Nevisti'c

stabilizing controller by posing the following **optimization** [3]Pointwise Min-Norm minimize $u^T u$

,positive semi-definite. A standard dynamic **programming** argument reduces the above optimal control

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On Receding Horizon Extensions and Control **Lyapunov** Functions Part I: Background
James A. Primbs

feasibility problems and complicate the on line **optimization** [16]On the other hand, obtaining stability

a state feedback control law. A standard dynamic **programming** argument reduces the above optimal control

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Stability Properties Of The Gradient Projection Method With.. - Solodov And (1994)
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P. Habets, and M Laloy. Stability Theory by **Liapunov's** Direct Method. Springer-Verlag, New York,

follows. In section 2 we outline the Generalized **Lyapunov** Direct Method for stability analysis. In Section

Introduction We consider the following general **optimization** problem $\min_{x \in X} f(x)$ where X is a

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Simultaneous Guaranteed-Cost Vector-Optimal Performance Design for .. - Luke (1999)
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are equal to the traces of the corresponding **Lyapunov** matrices $\text{tr}(P_j)$ as $\sum_{j=1}^m \text{tr}(P_j) = \text{tr}(P)$

solutions to the problem. A trajectory **optimization** example is given. 1 Introduction The problem

for m distinct plants is reduced to a convex **programming** problem. Two methods of reducing conservatism

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On the Semi-Definite Programming Solution of the Least Order.. - Mesbahi (1998)
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All references to stability are in the sense of **Lyapunov**: the origin is the stable equilibrium point of

functional can be optimized. The corresponding **optimization** problem is referred to as semi-definite

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Page(s): 1776 -1781 vol.2

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Page(s): 367 -374

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Page(s): 776 -783

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Page(s): 113 -124

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Ma, D.L.; Braatz, R.D.;

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Page(s): 766 -774

[\[Abstract\]](#) [\[PDF Full-Text \(168 KB\)\]](#) **IEEE JNL**

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Primlos, J.A.; Giannelli, M.;

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Page(s): 1643 -1647

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Page(s): 857 -869

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Volume: 2 , 18-20 Sept. 2002

Page(s): 1177 -1182 vol.2

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Page(s): 526 -531

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Zemliak, A.;
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Page(s): IV-465 -IV-468 vol.4

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Page(s): 614 -621 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(344 KB\)\]](#) **IEEE CNF**

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Hiskens, I.A.;
Control Applications, 2002. Proceedings of the 2002 International Conference o Volume: 1 , 18-20 Sept. 2002
Page(s): 19 -24 vol.1

[\[Abstract\]](#) [\[PDF Full-Text \(499 KB\)\]](#) **IEEE CNF**

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Azevedo, C.; Pognet, P.; Espiau, B.;
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Page(s): 2762 -2767

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Page(s): 1200 -1205 vol.2

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Page(s): 140 -153

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Page(s): 920 -935

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Page(s): 395 -407

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Page(s): 67 -84

[\[Abstract\]](#) [\[PDF Full-Text \(1261 KB\)\]](#) **IEEE JNL**

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